PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING	G AUTHORITY	PCT
To: BROOKS, Nigel Hill Hampton East Meon		NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
Petersfield, Hampshire GU32 UNITED KINGDOM	NIGEL BROOK	'C
	RECEIVED	(PCT Rule 44.1)
	GANOV 2004	Date of mailing (day/month/year) 05/11/2004
Applicant's or agent's file reference 2257/PCT	1-12-04	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/GB2004/003454	2nd Disay (15) 15-12-04 22-12-04	International filing date (day/month/year) 12/08/2004
Applicant ANGLO EUROPEAN DESIGN ENGIR	5-1-05 NEERS LIMITED	
Authority have been established and Filing of amendments and statem The applicant is entitled, if he so wis When? The time limit for filing so International Search Research Research Programmer Directly to the Internation 1211 Gent For more detailed instructions, search Research Res	ent under Article 19: shes, to amend the claim uch amendments is nor port; however, for more nal Bureau of WIPO, 34 neva 20, Switzerland, Fase the notes on the accordant the more written opinion of the little payment of (an) additional sections thereon has been accordant.	ns of the International Application (see Rule 46): maily 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. I chemin des Colombettes ascimile No.: (41–22) 740.14.35 empanying sheet. I report will be established and that the declaration under international Searching Authority are transmitted herewith. I chal fee(s) under Rule 40.2, the applicant is notified that: In transmitted to the International Bureau together with the
annlicant's request to forward	the texts of both the pro	test and the decision thereon to the designated Offices. plicant will be notified as soon as a decision is made.
International Bureau. If the applicant wish application, or of the priority claim, must rebefore the completion of the technical pro-	es to avoid or postpone each the International E eparations for internatio	ne International application will be published by the publication, a notice of withdrawal of the international Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, nal publication.
International Bureau. The International Bureau.	ureau will send a copy of the beautiful or the price of t	written opinion of the International Searching Authority to the of such comments to all designated Offices unless an established. These comments would also be made available to only date.
examination must be filed if the applicant date (in some Offices even later); otherwisets for entry into the national phase before	wishes to postpone the ise, the applicant must, ore those designated Of	
months.		s (or later) will apply even if no demand is filed within 19
See the Annex to Form PCT/IB/301 and, Guide, Volume II, National Chapters and	for details about the ap the WIPO internet site	plicable time limits, Office by Office, see the PCT Applicant's
Name and mailing address of the International European Patent Office, P.B. 58 NL-2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 Fax: (+31-70) 340-3016	18 Patentlaan 2	Authorized officer Cora Dreyer

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international phulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the International application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or

"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, Item 5 below.
nternational application No.	International filing date (day/month/)	(Earliest) Priority Date (day/month/year)
	12/09/2004	13/08/2003
CT/GB2004/003454	12/08/2004	13/00/2003
pplicant		
ANGLO EUROPEAN DESIGN EN	GINEERS LIMITED	
This International Search Report has b	een prepared by this international Search	ching Authority and is transmitted to the applicant
according to Article 18. A copy is being	transmitted to the International Bureau.	
This International Search Report consi	sts of a total of shee	ets.
X It is also accompanied	by a copy of each prior art document cite	ted in this report.
1. Basis of the report	he international search was carried out 0	on the basis of the international application in the
language in which it was filed,	unless otherwise indicated under this ite	em.
The internation	nal search was carried out on the basis o	of a translation of the international application furnished
this Authority (Rule 23.1(b)).	
b. With regard to any nuc	cleotide and/or amino acid sequence o	disclosed in the international application, see Box No. i
	· · · · · · · · · · · · · · · · · · ·	
2. X Certain claims were	found unsearchable (See Box II).	
o	lacking (see Box III).	
3. Unity of invention is	doking (555 Box 11).	
4. With regard to the title,		
•	s submitted by the applicant.	
the text has been esta	blished by this Authority to read as follow	ws:
5. With regard to the abstract,		
• • • • • • • • • • • • • • • • • • • •	s submitted by the applicant.	
	blished according to Rule 38 2(h) by th	his Authority as it appears in Box No. IV. The applicant
may, within one month	from the date of mailing of this internati	tional search report, submit comments to this Authority.
6. With regards to the drawings,		
	pe published with the abstract is Figure N	No 2
	by the applicant.	
L	this Authority, because the applicant fa	ailed to suggest a figure.
·	this Authority, because this figure bette	
b. none of the figures is	to be published with the abstract.	

International application No.

PCT/GB2004/003454

INTERNATIONAL SEARCH REPORT

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A current collector wire (1) is over-moulded with a seal (2) made from a thermoplastic elastomer (Santoprene 64) having a (64) Shore A hardness rating. In a three electrode carbon monoxide sensor three current collector wire (1a, 1b, 1c) and seal (2a, 2b, 2c) combinations are inserted into the body (3) through receiving apertures (12a, 12b, 12c) in a side wall of the body, so that the current collectors protrude through connection apertures (12a, 12b and 12c). The outside diameters of the seals and the bores of the apertures are dimensioned to provide an interference fit of the one in the other. The seals are pressed home into receiving apertures in the body (3) to provide compression of the seals against both current collectors and the aperture bores resultant from the interference. Gold-plated phosphor bronze clips (8) are attached which locate on and are retained by barbs on the housing, thereby trapping the current collector wires and providing electrical contact to external circuitry.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/003454

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N27/49 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) GO1N IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category * 13-19 WO 01/81911 A (MILLAR ANDREW PETER; CHAPPLES JOHN (GB); CITY TECH (GB); DOWNER ANTHO) 1 November 2001 (2001-11-01) page 9, line 10 - page 13, line 23 13-19 GB 2 073 891 A (RADIOMETER AS) 21 October 1981 (1981-10-21) figures 2,12,13 1-19 WO 02/088694 A (JONES MARTIN GEOFFREY; CITY TECH (GB); COLLINS GRAHAM (GB)) 7 November 2002 (2002-11-07) cited in the application page 9, line 1 - line 17 Patent family members are listed in annex. Further documents are listed in the continuation of box C. later document published after the International filing date or priority date and not in conflict with the application but Special categories of cited documents: cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the which is cited to establish the publication date of another citation or other special reason (as specified) document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. *P* document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 05/11/2004 20 October 2004 **Authorized officer** Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Purdie, D Fax: (+31-70) 340-3016

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1-12, 20, 21

The object of claim 1 is defined by relating features of the combination of current collector and seal to a further product, an electrochemical sensor, which is not part of the claim. The resulting lack of clarity means that it is not possible to perform a complete search of the prior art relevant to the scope of claim 1. Thus, of the apparatus claims, only those which define an electrochemical gas sensor comprising a current collector and a seal have been searched.

Claims 20 and 20 each define a method of manufacturing a current collector and seal combination. As the object whose manufacture they describe is unclear and not searchable, so it is not possible to perform a complete search of the methods to manufacture the object.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

International application No. PCT/GB2004/003454

INTERNATIONAL SEARCH REPORT

In termational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claims Nos.:	Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet)	
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: X	This late	emotional South Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
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because they relate to subject matter not required to be searched by this Authority, namely: X Claims Nos.:	, F	Claims Nos :	
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically. See FURTHER INFORMATION sheet PCT/ISA/210 Claims Nos.: because they are dependent cialms and are not drafted in accordance with the second and third sentences of Rule 6.4(a). IOX.III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet) Not international Searching Authority found multiple Inventions in this international application, as follows: As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only come of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	٠ ــــــــــــــــــــــــــــــــــــ	because they relate to subject matter not required to be searched by this Authority, namely:	•
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